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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re App	lication of:)
	Robert D. Symonds, et al.)
•) Art Unit: 2876
Serial No.	:)
) Patent Examiner: Jared Fureman
Filed:	Herewith)
)
For:	Financial Transaction Processing	τ ▶
	System and Method	رق).
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D D (A A - 1' - 4'	archive
	t Application	
_	oner of Patents and Trademarks	
wasningio	on, D.C. 20231	3
	Request to Ame	nd Drawings
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Applicants request to amend the drawings currently pending in the Application by substituting the twenty nine (29) formal drawing sheets enclosed herewith containing Figures 1-30, for the informal drawing sheets currently pending.

These new formal drawings are identical to the pending drawings in all respects except for shading, line quality and paper size. No new matter will be added as a result of this substitution.

Permission to amend the drawings by substitution is respectfully requested.

Respectfully submitted,

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(330) 722-5143

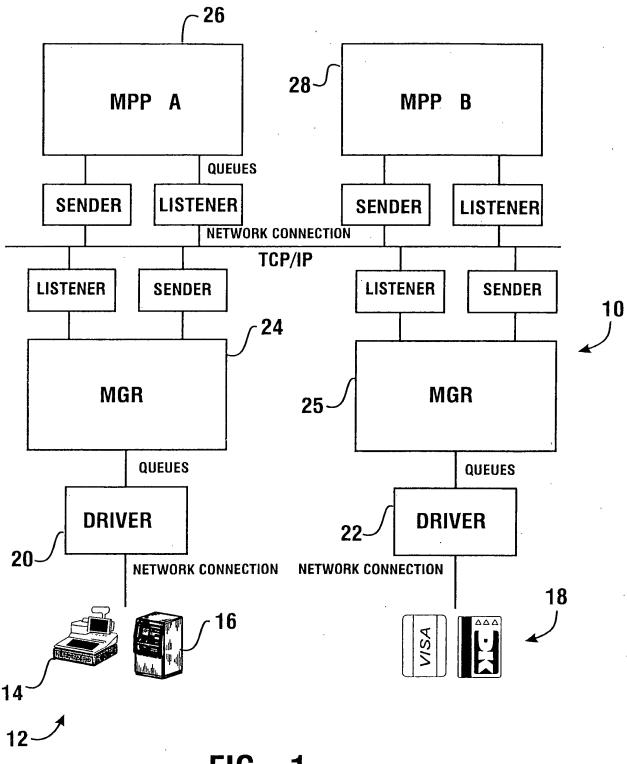
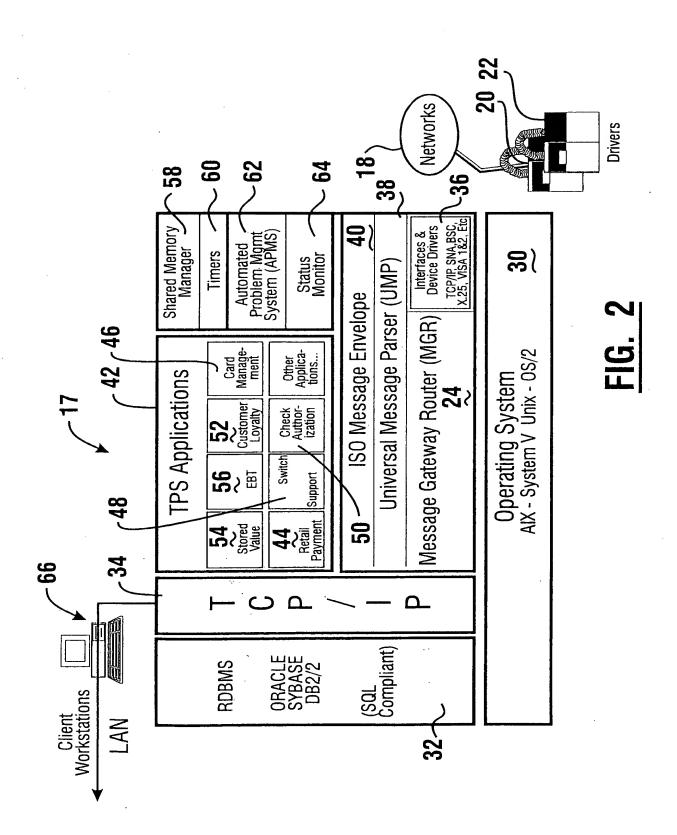
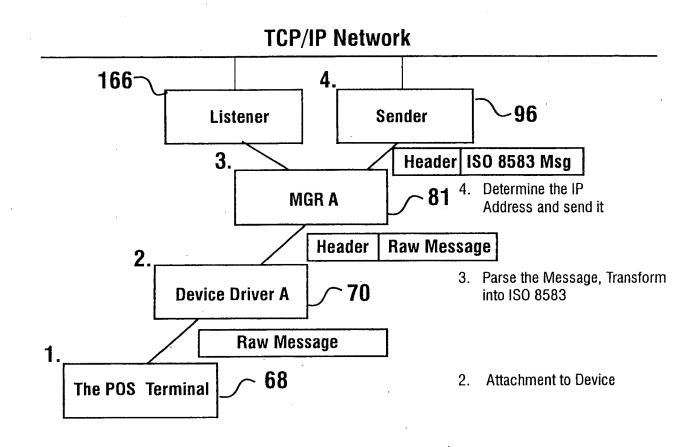


FIG. 1



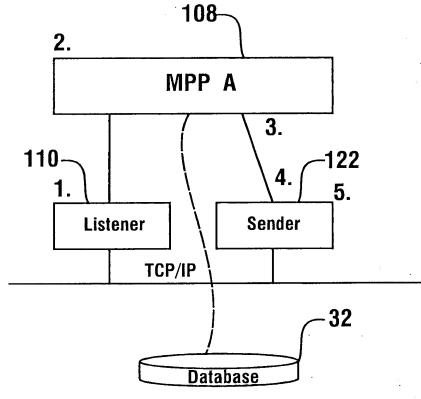
Standard Message Envelope (SME) Format.

1	Header Sid	Header Layout Version	1
2	Source Node Sid	The message originating node system ld.	6
3	Message Receive System Time	The System time in YYYYMMDDHHMISSmmm format.	17
4	Internal Message Sid	Unique system Id of the received message.	4
5	Service Sid	The Message Processing Program (MPP) service system Id, which can process received message.	4
6	Target Node Sid	The message receiving node system Id	6
7	Data Format Indicator (Source)	Message data format type 0 - External Data Source 1 - Internal Data Source	1
8	Message Direction	The direction of message routing.	1
9	Processing Time	Elapsed message processing time in milliseconds.	5
10	Processing Node Sid	The last processing node system Id	6
11	Target Line Node Sid	Line driver node system id. Assigned when terminal is attached to line group.	6
12	Message Text	The Message text in ISO8583 format	Variable



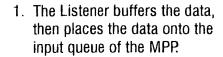
1. Origin of message

FIG. 4



- 1. The Listener buffers the data, then places the data onto the input queue of the MPP.
- 2. The MPP performs various functions based upon the requirements of the message.
 - Builds an internal array.
 - Parses composite fields into subfields of the array.
 - May perform authorization.
 - Determines who to send the message to. May be an MPP or MGR
 - Builds a new message.
- 3. Sends a copy of the data to the database for archive.
- 4. Sends the message to the authorization host.
- 5. The Sender determines the IP address and sends the message.

FIG. 5



- 2. The MPP performs various functions based upon the requirements of the message.
 - Builds an internal array.
 - Builds any subfields required by the

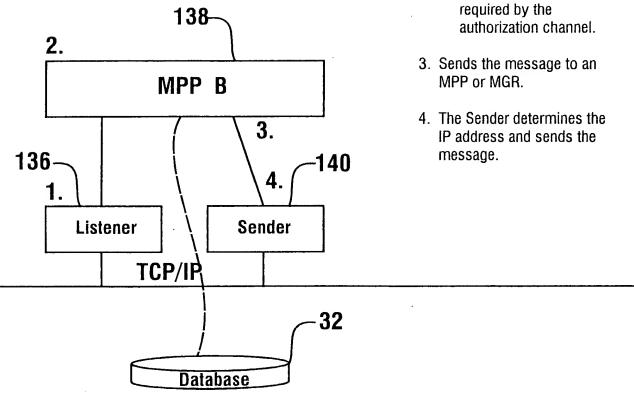
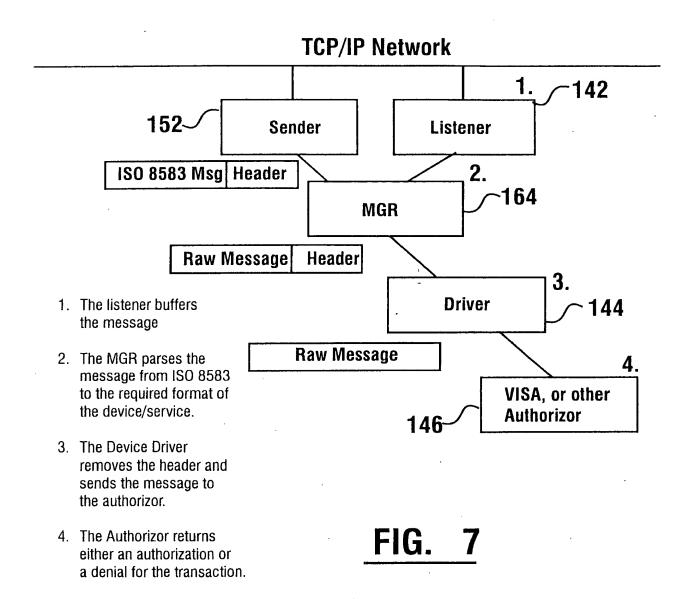
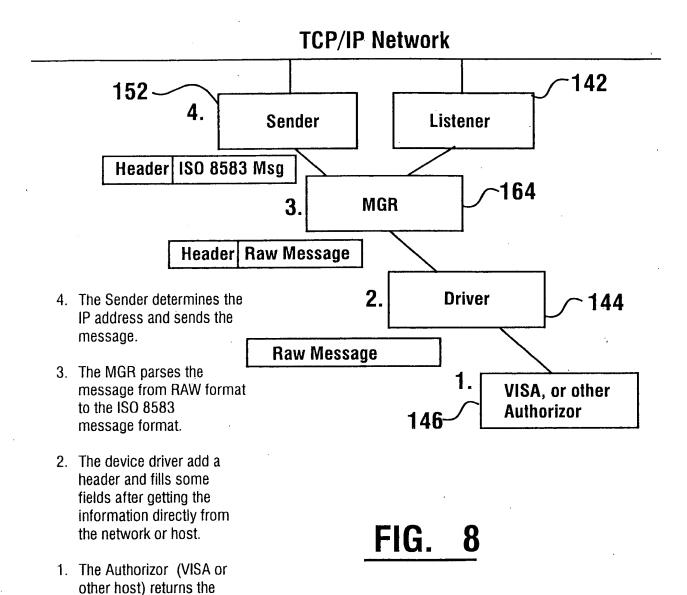
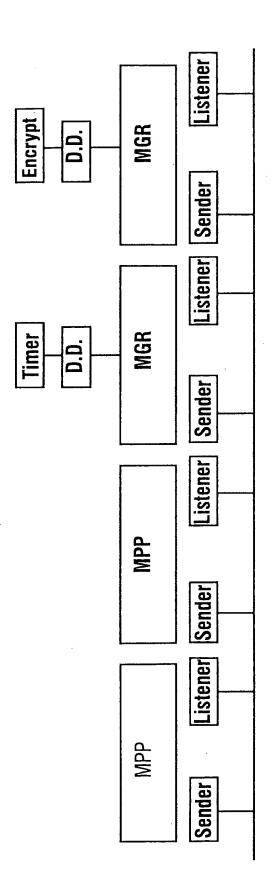


FIG.



message. This represents the actual host/network.





- a key. It may send the message to the first MPP by calling the Encryption Device for The Message is sent to the second MPP. It uses a echo-back field to determine the orgin of the message. The database contains the original message with decryption of the PAN.
- such as track II data. It will then send the message back to the original calling The message is received by the first MPP. It may need to build special fields, device by using the saved data in the database. ر.

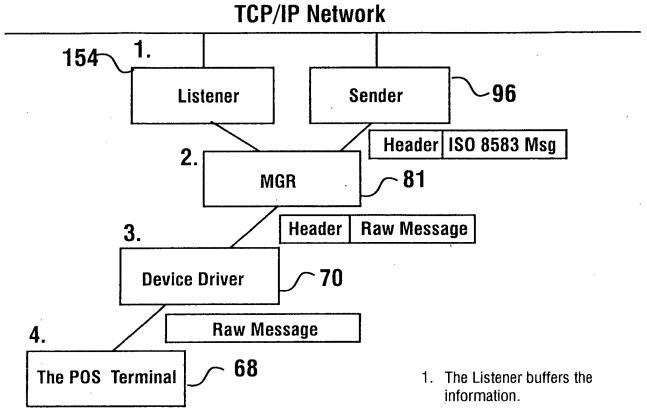


FIG. 10

- 2. The MGR parses the ISO 8583 message into a message format that can be used by the device.
- 3. The Device driver sends the message to the device.
- 4. The POS terminal returns a message confirming the authorization message.

The message is then returned to the MPP in the same manner as before.

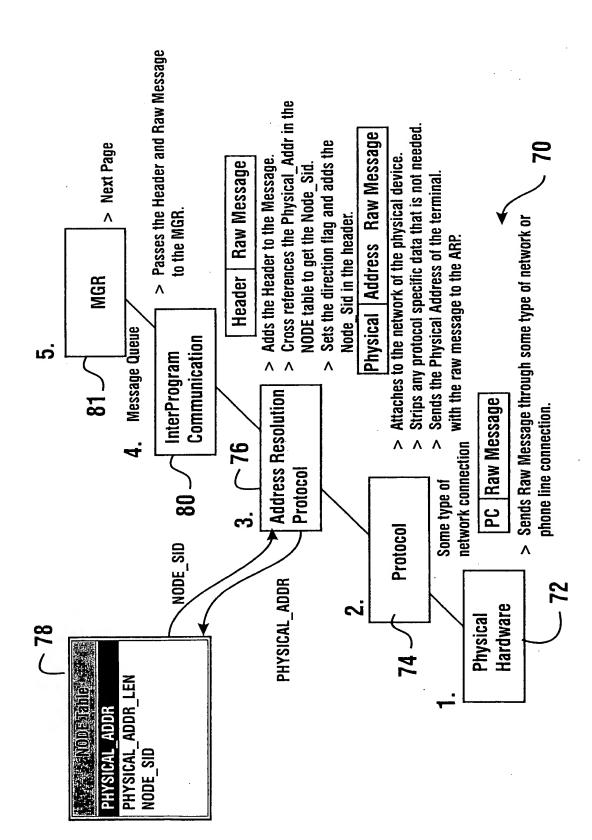
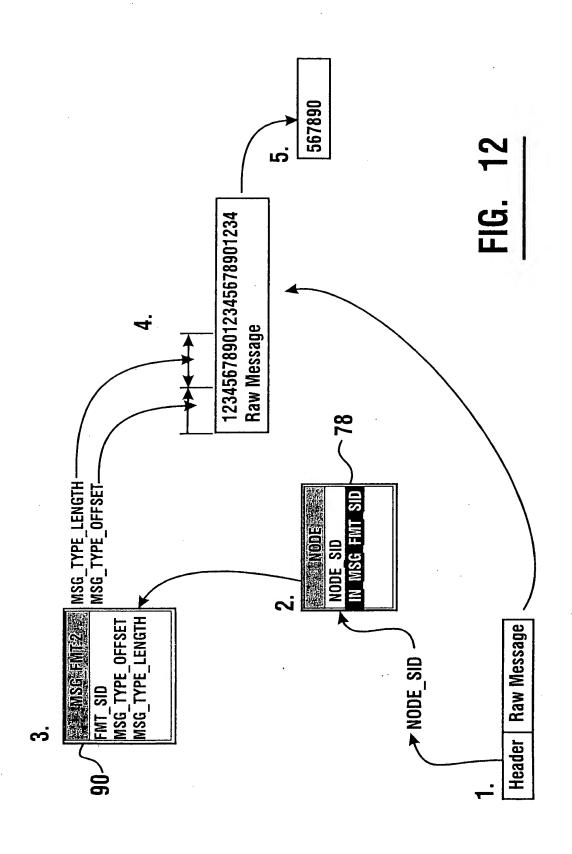
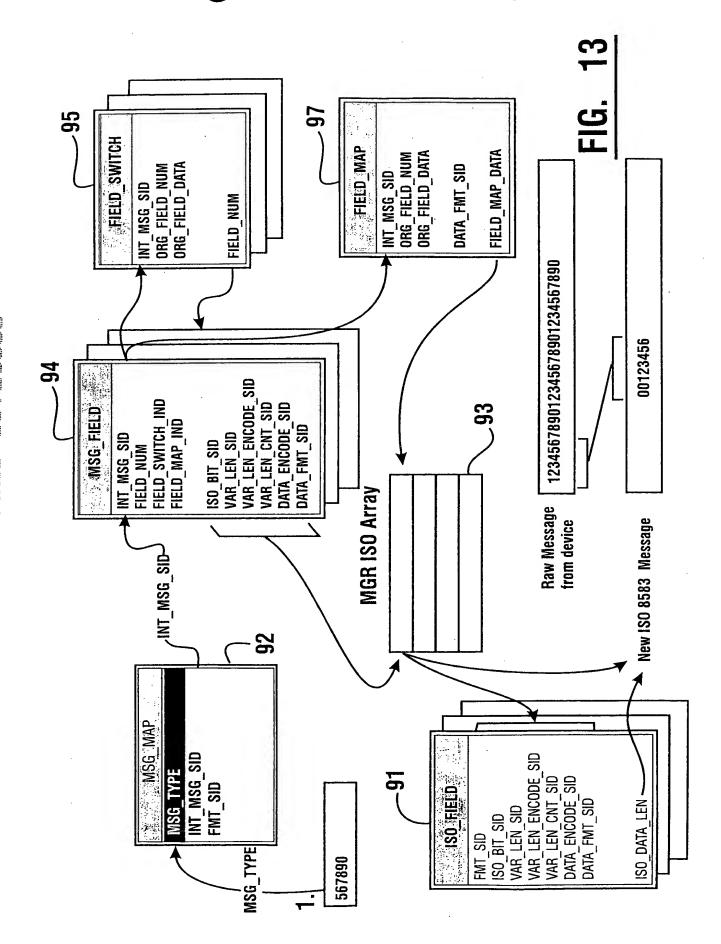
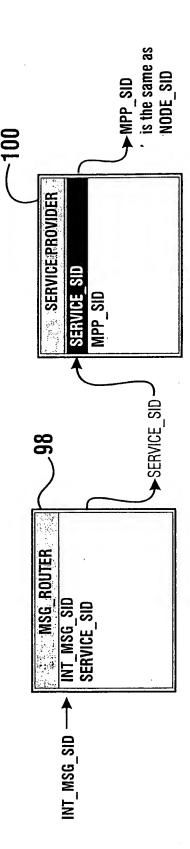


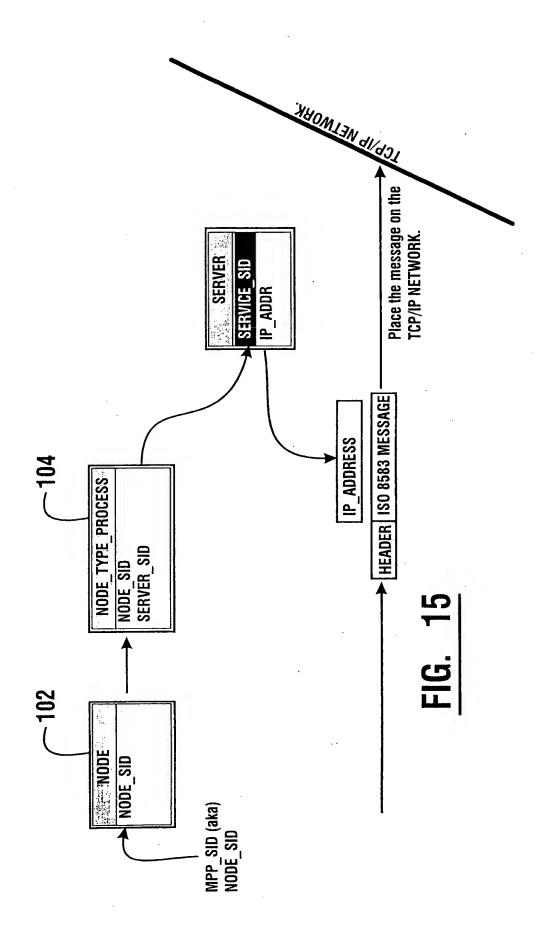
FIG. 11

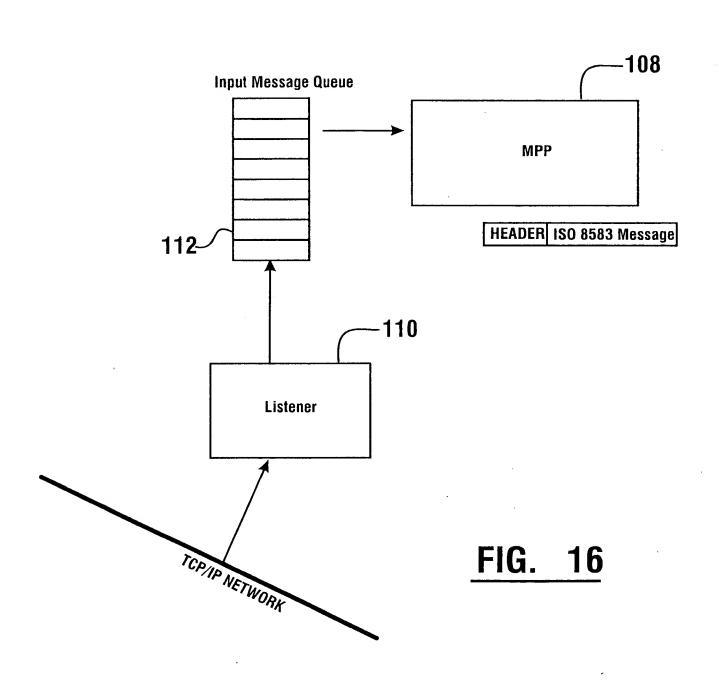


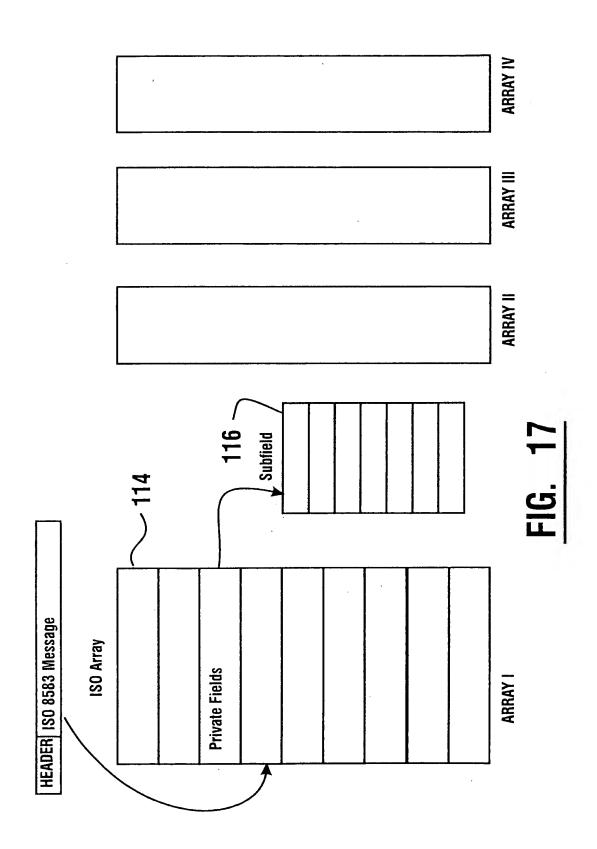


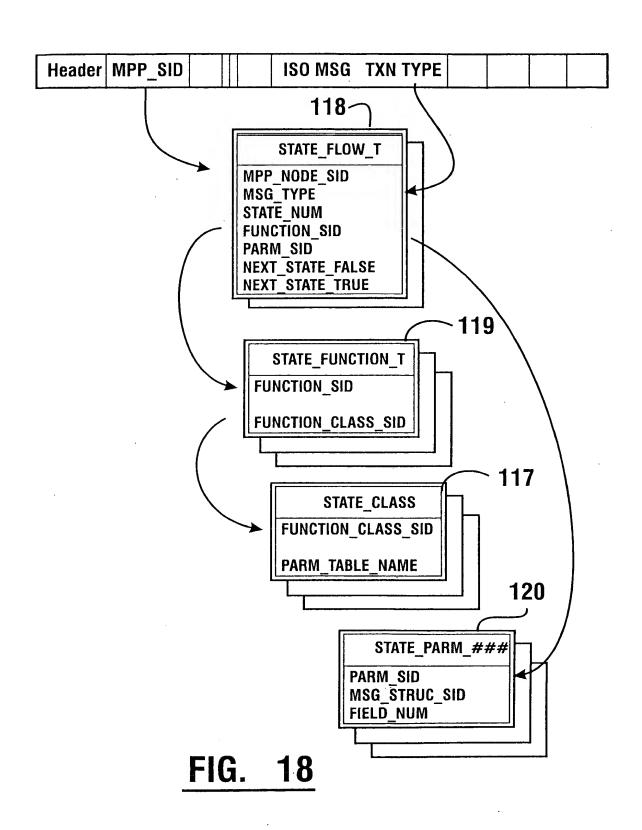


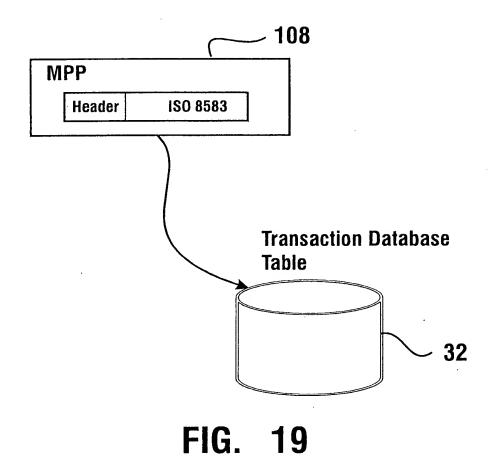
If the chosen Provider is not available at the time of the TCP/IP call. This table is used to determine if there is another service provider. Hot spare - fault tolerance.











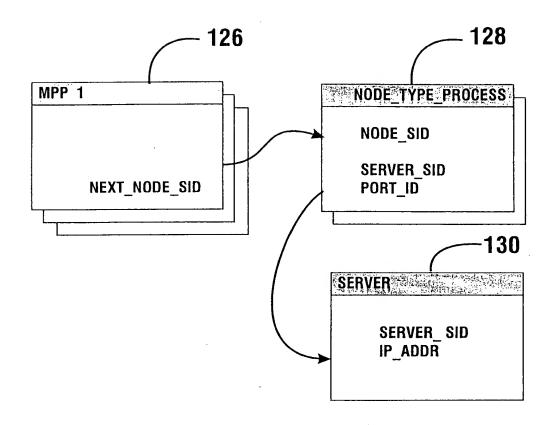
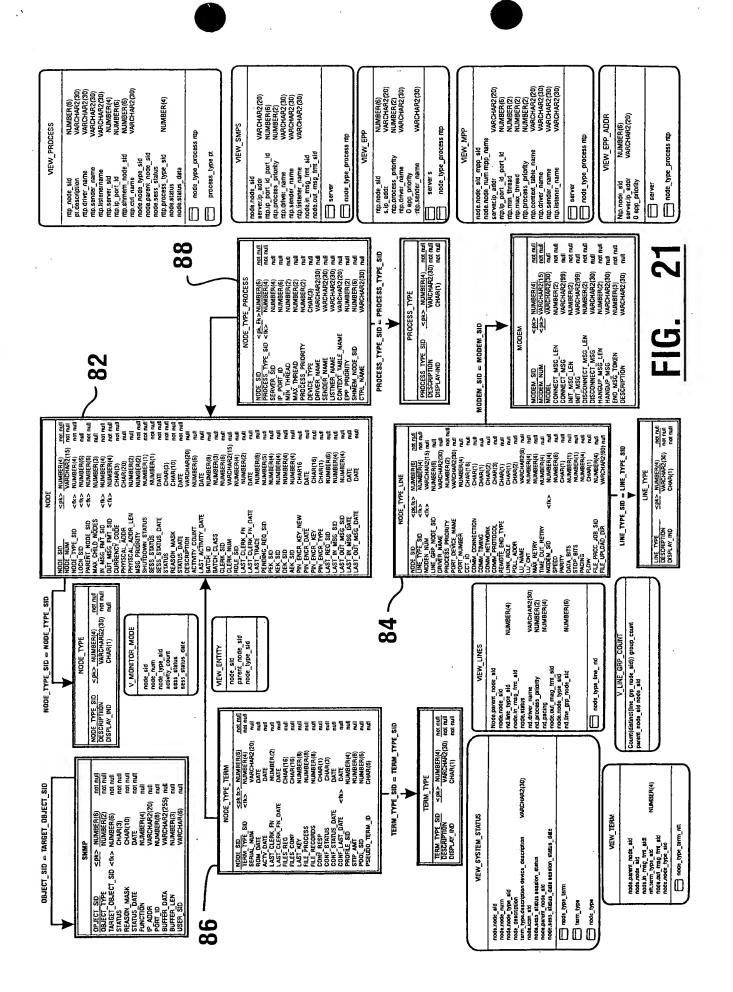
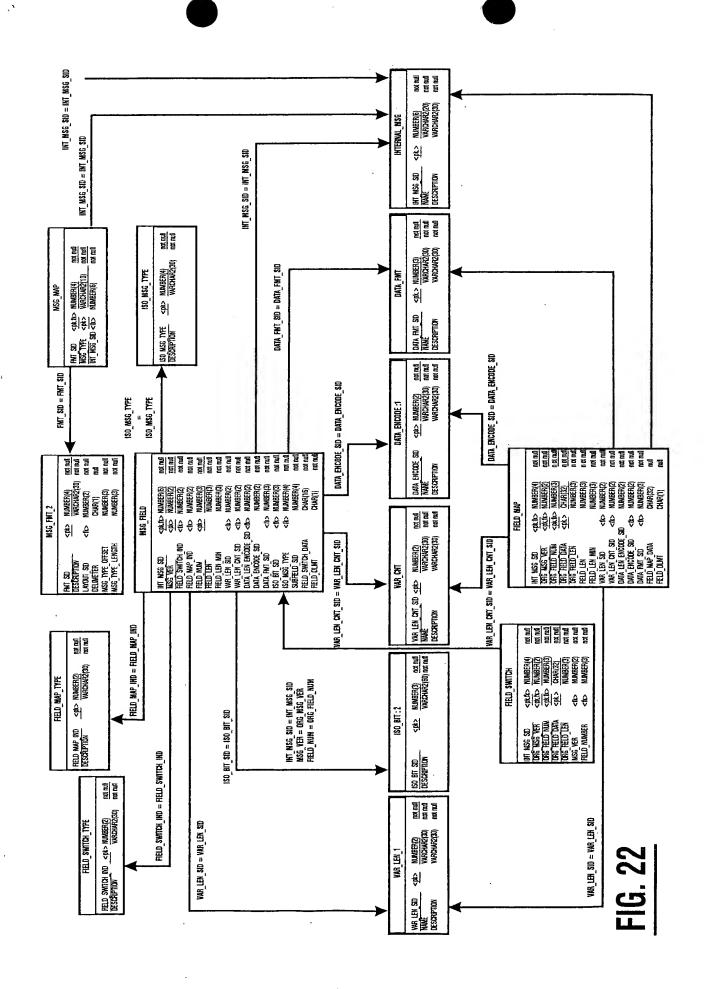
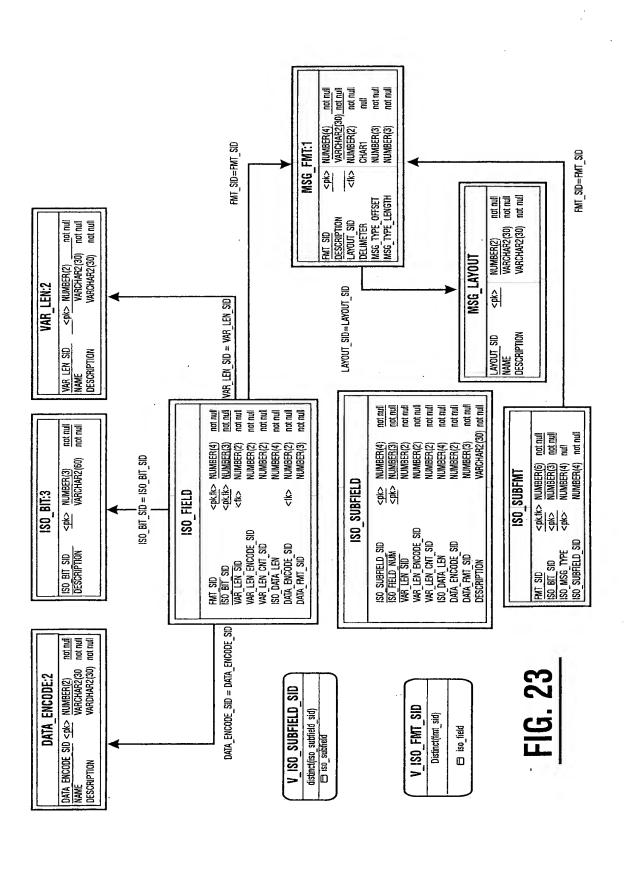


FIG. 20





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EXTERNAL_HOST			
HOST SID	<pk> NUMBER(6)</pk>	not null	
HOST_NUM	VARCHAR2(15)	null	
NAME	VARCHAR2(30)	null	
ADDR	VARCHAR2(30)	nuli	
CITY	VARCHAR2(20)	nuli	
STATE	CHAR(2)	null	
COUNTRY CODE	CHAR(3)	nuli	
ZIP CODE	CHAR(9)	null	
CONTACT NAME	VARCHAR2(30)	null	
TELEPHONE	VARCHAR2(16)	null	
NODE SID	NUMBER(6)	null	
COMMENTS	VARCHAR2(30)	null	
STATUS	CHAR(3)	null	
STATUS_DATE	DATE `	null	

SERVER_HOST_LINK				
SERVER SID HOST-SID PRIORITY	< <u>pk.fk</u> > < <u>pk.fk</u>	NUMBER(6) NUMBER(6) NUMBER(2)	not null not null null	

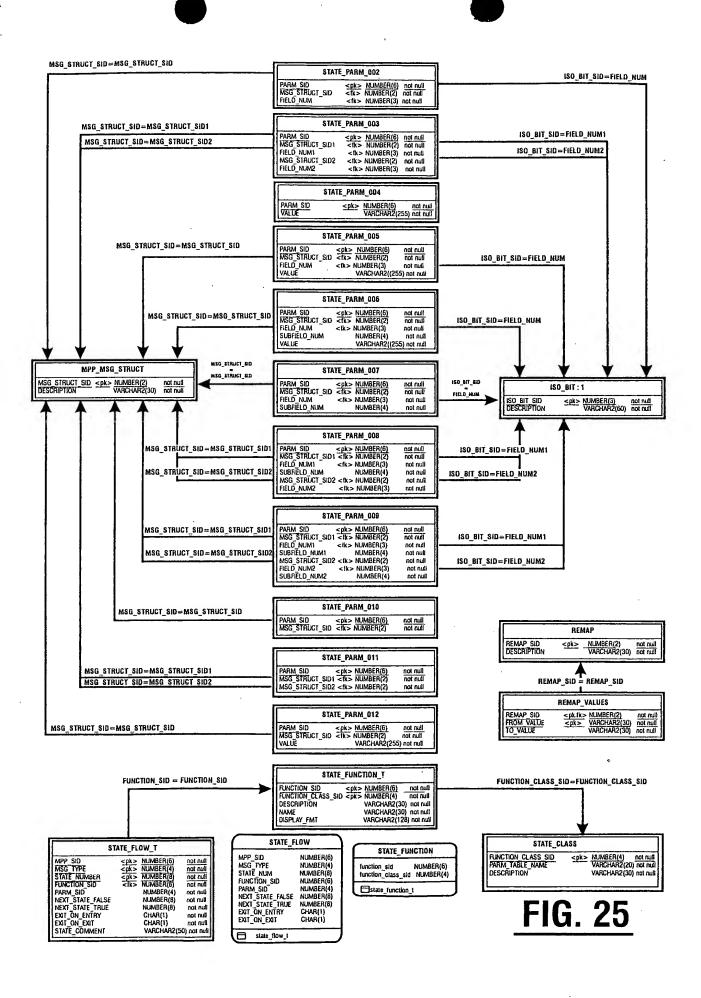
SERVER_SID = SERVER_SID

SERVER			
SERVER SID NAME IP_ADDR	VARCHAR2(20) no	null t null ot null	

COL_VALUE			
TABLE NAME COLUMN NAME ITEM_OFFSET COLUMN_VALUE DESCRIPTION	<pk> VARCHAR2(20) not null <pk> VARCHAR2(20) not null <pk> NUMBER(2) not null <pk> VARCHAR2(3) not null VARCHAR2(30) not null VARCHAR2(30) not null</pk></pk></pk></pk>		

STATUS_REASON			
TABLE NAME	<pk></pk>	VARCHAR2(20)	not nul
STATUS VALUE	<pk></pk>	CHAR(3)	not nul
REASON_NUM	<pk></pk>	NUMBER(2)	not nul

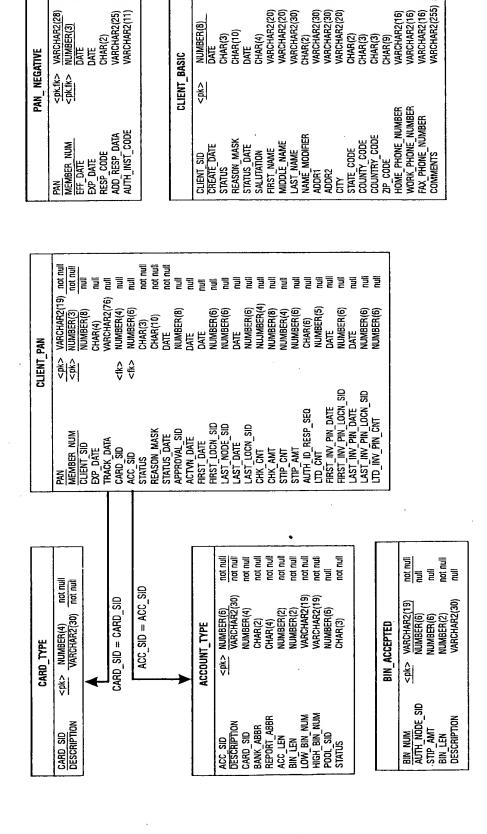
SYSTEM_PARM			
SYSTEM PARM SID	<pk>NUMBER(4)</pk>	not null	
PARAMETER	<pk>VARCHAR2(10)</pk>	not null	
VALUE	VARCHAR2(20)	not null	
FMT	VARCHAR2(10)	not null	
STATUS	CHAR(3)	not null	
STATUS DATE	DATE	not nul	
DESCRIPTION	VARCHAR2(30)	not null	



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not null not null

VARCHAR2(11)



not null not null not null

CHAR(3) CHAR(10) DATE CHAR(4)

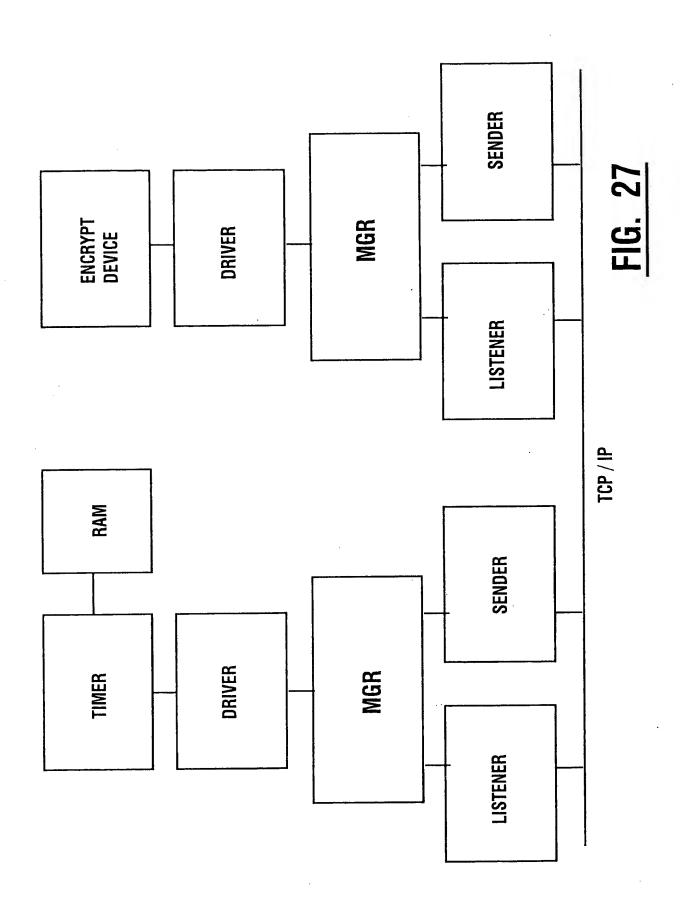
NUMBER(8) Date

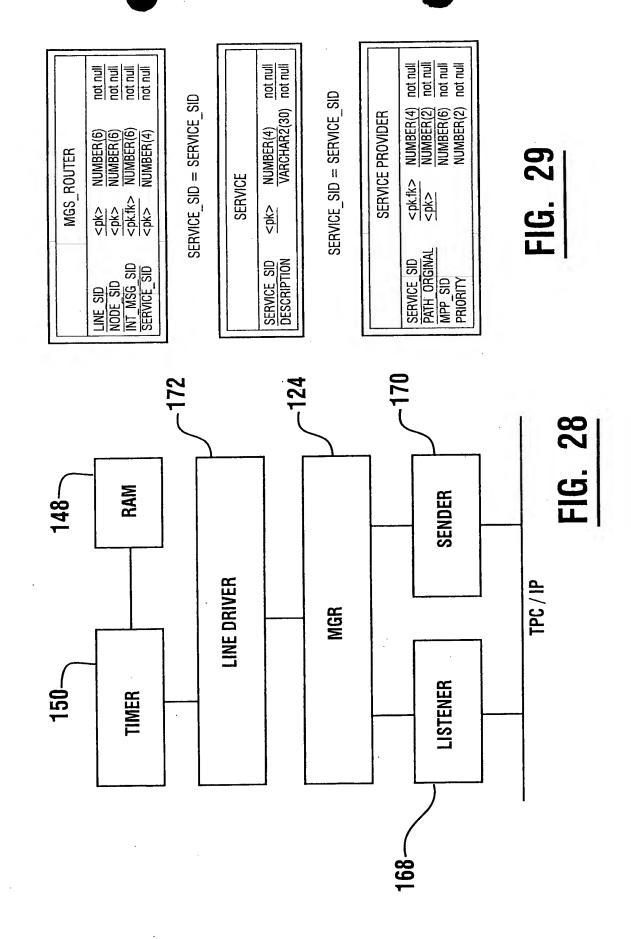
not null not null null not null

VARCHAR2 (20)
VARCHAR2 (20)
VARCHAR2 (30)
CHAR(2)
VARCHAR2 (30)
VARCHAR2 (30)
VARCHAR2 (20)
CHAR (3)
CHAR (3)
CHAR (3)

VARCHAR2(16) VARCHAR2(16) VARCHAR2(255)

/ARCHAR2(16)





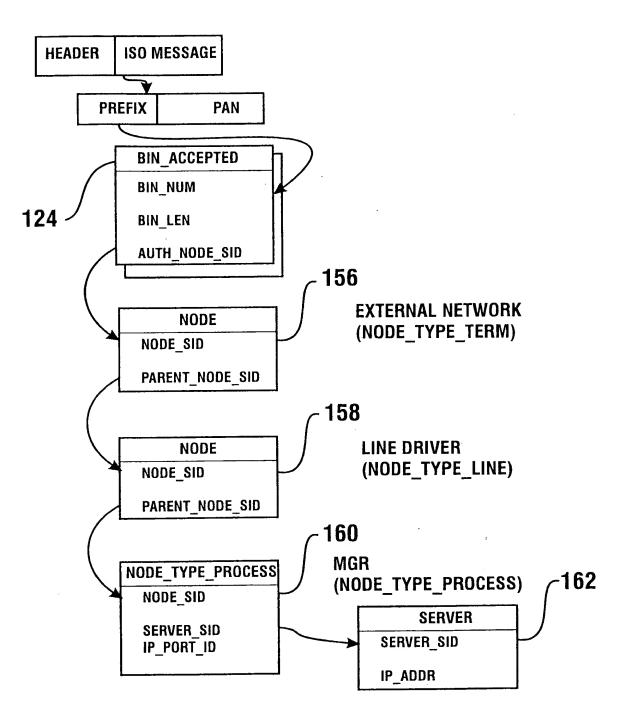


FIG. 30